OIPE JC174 JAN 2. 1 2003 PATENT & TRADEMARK OFFICE

O.G. FIG. CLASS SUBCLASS APPROVED BY DRAFTSMAN

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          10                  30                  50
CACGAGATTTCATGAGCATCCTCCTCTAAACGCGTGTCAAGACAAAAGATGCTTCAGCTT
                                                M  L  Q  L

          70                  90                 110
TGGAAACTTGTTCTCCTGTGCGGCGTGCTCACTGGGACCTCAGAGTCTCTTCTTGACAAT
W  K  L  V  L  L  C  G  V  L  T  G  T  S  E  S  L  L  D  N

         130                 150                 170
CTTGGCAATGACCTAAGCAATGTCGTGGATAAGCTGGAACCTGTTCTTCACGAGGGACTT
L  G  N  D  L  S  N  V  V  D  K  L  E  P  V  L  H  E  G  L

         190                 210                 230
GAGACAGTTGACAATACTCTTAAAGGCATCCTTGAGAAACTGAAGGTCGACCTAGGAGTG
E  T  V  D  N  T  L  K  G  I  L  E  K  L  K  V  D  L  G  V

         250                 270                 290
CTTCAGAAATCCAGTGCTTGGCAACTGGCCAAGCAGAAGGCCCAGGAAGCTGAGAAATTG
L  Q  K  S  S  A  W  Q  L  A  K  Q  K  A  Q  E  A  E  K  L

         310                 330                 350
CTGAACAATGTCATTTCTAAGCTGCTTCCAACTAACACGGACATTTTTGGGTTGAAAATC
L  N  N  V  I  S  K  L  L  P  T  N  T  D  I  F  G  L  K  I

         370                 390                 410
AGCAACTCCCTCATCCTGGATGTCAAAGCTGAACCGATCGATGATGGCAAAGGCCTTAAC
S  N  S  L  I  L  D  V  K  A  E  P  I  D  D  G  K  G  L  N

         430                 450                 470
CTGAGCTTCCCTGTCACCGCGAATGTCACTGTGGCCGGGCCCATCATTGGCCAGATTATC
L  S  F  P  V  T  A  N  V  T  V  A  G  P  I  I  G  Q  I  I

         490                 510                 530
AACCTGAAAGCCTCCTTGGACCTCCTGACCGCAGTCACAATTGAAACTGATCCCCAGACA
N  L  K  A  S  L  D  L  L  T  A  V  T  I  E  T  D  P  Q  T
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FIG. 1A

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O.G. FIG.
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        550                 570                 590
CACCAGCCTGTTGCCGTCCTGGGAGAATGCGCCAGTGACCCAACCAGCATCTCACTTTCC
H  Q  P  V  A  V  L  G  E  C  A  S  D  P  T  S  I  S  L  S

        610                 630                 650
TTGCTGGACAAACACAGCCAAATCATCAACAAGTTCGTGAATAGCGTGATCAACACGCTG
L  L  D  K  H  S  Q  I  I  N  K  F  V  N  S  V  I  N  T  L

        670                 690                 710
AAAAGCACTGTATCCTCCCTGCTGCAGAAGGAGATATGTCCACTGATCCGCATCTTCATC
K  S  T  V  S  S  L  L  Q  K  E  I  C  P  L  I  R  I  F  I

        730                 750                 770
CACTCCCTGGATGTGAATGTCATTCAGCAGGTCGTCGATAATCCTCAGCACAAAACCCAG
H  S  L  D  V  N  V  I  Q  Q  V  V  D  N  P  Q  H  K  T  Q

        790                 810                 830
CTGCAAACCCTCATTTGAAGAGGACGAATGAGGAGGACCACTGTGGTGCATGCTGATTGG
L  Q  T  L  I  *

        850                 870                 890
TTCCCAGTGGCTTGCCCCACCCCCTTATAGCATCTCCCTCCAGGAAGCTGCTGCCACCAC

        910                 930                 950
CTAACCAGCGTGAAAGCCTGAGTCCCACCAGAAGGACCTTCCCAGATACCCCTTCTCCTC

        970                 990                1010
ACAGTCAGAACAGCAGCCTCTACACATGTTGTCCTGCCCCTGGCAATAAAGGCCCATTTC


TGCAAAAA
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FIG. 1B

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O.G. FIG. CLASS SUBCLASS
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          1                                                  50
  moPSP   MFQLGSLVVL CGLLIGNSES LLGELGSAVN N..... ...LKILNPP
 ratPSP   MFQLGSLVVL CGLLIGTSES LLGDVANAVN N..... ...LDILNSP
ratSMGA   MFQLGSLVVL CGLLIGTSGS LFD..... ..... .....
   HPSP   MLQLWKLVLL CGVLTGTSES LLDNLGNDLS NVVDKLEPVL HEGLETVDNT

          51                                                 100
  moPSP   SEAVPQNLNL DVELLQQATS WPLAKNSILE TLNTADLGNL KSFTSLNGLL
 ratPSP   SEAVAQNLNL DVGSLQQATT WPSAKDSILE TLNKVELGNS NGFTPLNGLL
ratSMGA   ...IFQNPEL DVESV..... WSEINYRIRY ALETMDLDML ADYLSKRGIE
   HPSP   LKGILEKLKV DLGVLQKSSA WQLAKQKAQE AEKLLNNVIS KLLPTNTDIF

          101                                                150
  moPSP   .LKINNLKVL DFQAKLSSNG NGIDLTVPLA GEASLVLPFI GKTVDISVSL
 ratPSP   .LRVNKFRVL DLQAGLSSNG KDIDLKLPLV FEISFSLPVI GPTLDVAVSL
ratSMGA   .LKIKDLRIL NLNHEVSPNG DEVTLKMPMA LNASLSLPAR DLTTDVSISM
   HPSP   GLKISNSLIL DVKAEPIDDG KGLNLSFPVT ANVTVAGPII GQIINLKASL

          151                                                200
  moPSP   DLINSLSIKT NAQTGLPEVT IGKCSSNTDK ISISLLGRRL PIINSILDGV
 ratPSP   DLLNSVSVQT NAQTGLPGVT LGKCSGNTDK ISISLLGRRL PFVNRILDGV
ratSMGA   EAITSFAIEK DPKTGRRVLN MQRCSLNTDN TSISLLNRKS NFVNLALDSA
   HPSP   DLLTAVTIET DPQTHQPVAV LGECASDPTS ISLSLLDKHS QIINKFVNSV

          201                                                250
  moPSP   STLLTSTLST VLQNFLCPLL QYVLS.TLNP SVLQGLLSNL LAGQVQLAL.
 ratPSP   SGLLTGAVSI LLQNILCPVL QYLLS.TMSG SAIQGLLSNV LTGQLAVPL.
ratSMGA   LYLIKRGLTL PVRRQLCPVL QLIISNTFHP DEISNPQTAI ST.......
   HPSP   INTLKSTVSS LLQKEICPLI R.IFIHSLDV NVIQQVVDNP QHKTQLQTLI
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FIG. 2

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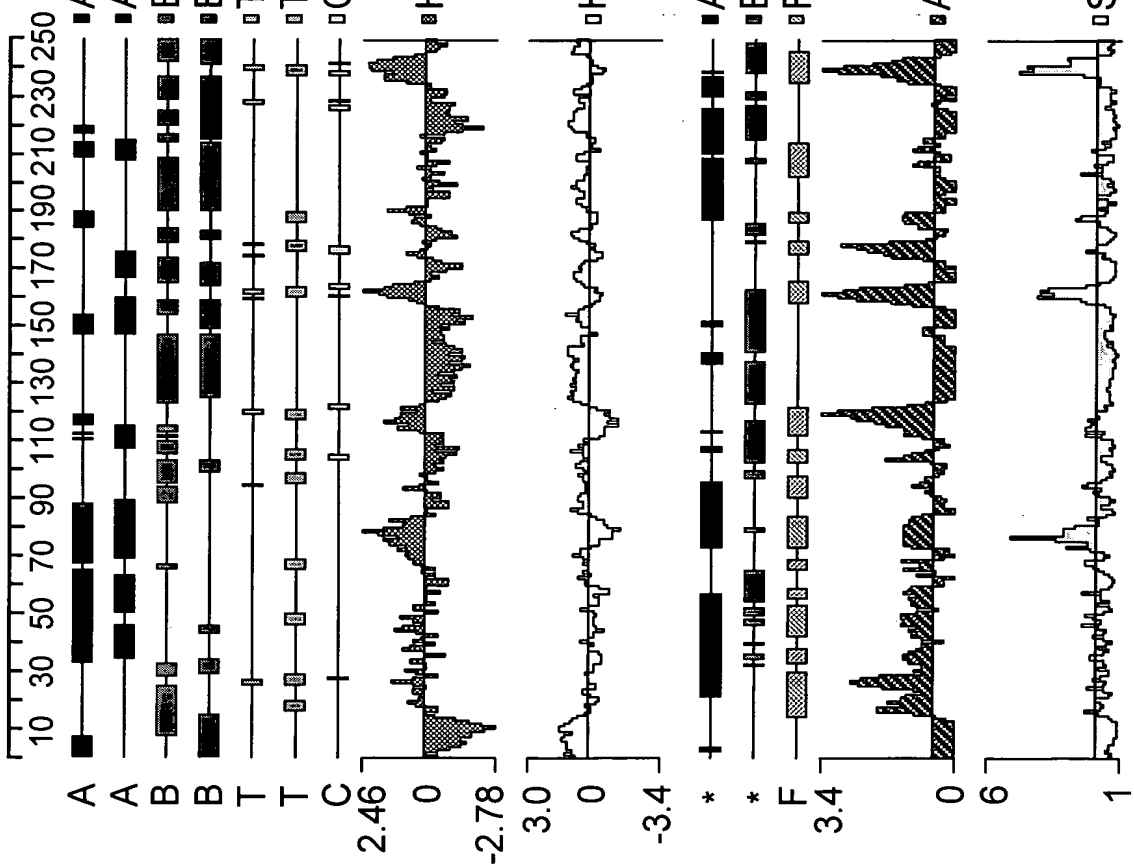

FIG.3